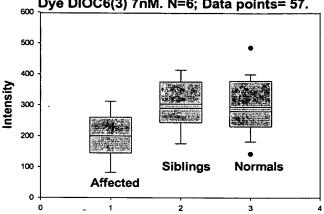
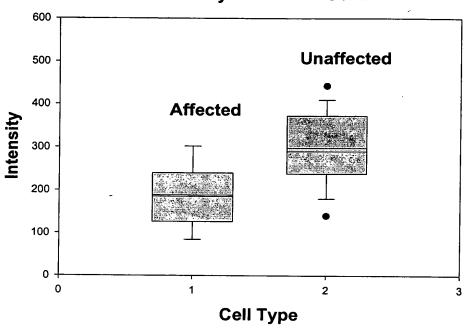
Membrane Potentials
Data of All Cells in Regular Buffer
Dye DIOC6(3) 7nM. N=6; Data points= 57.



Cell Type
The differences in the mean values among the groups are greater than would be expected by chance; there is a statistically significant difference (P = <0.001).

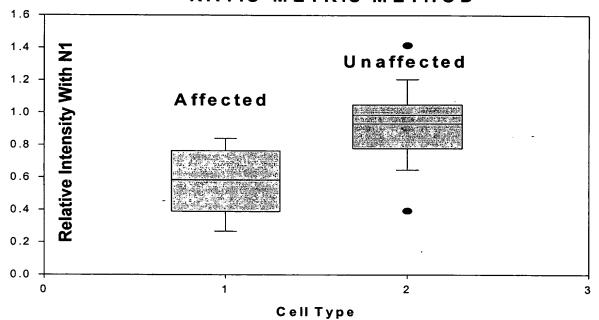
Power of performed test with alpha = 0.050: 0.991

Membrane Potentials Summary Data of All Cells



95 percent confidence interval for difference of means: -159.577 to -66.090 The difference in the mean values of the two groups is greater than would be expected by chance; there is a statistically significant difference between the input groups (P = <0.001). Power of performed test with alpha = 0.050: 0.999

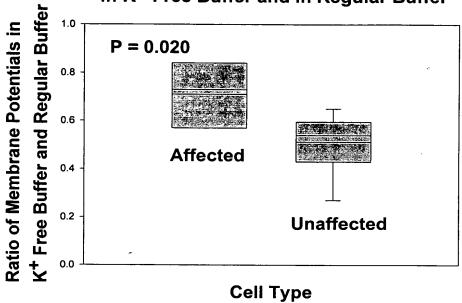
Summary of all data All intensities are relative to Cell N1 RATIO-METRIC METHOD



t=-5.386 with 54 degrees of freedom. (P = <0.001) 95 percent confidence interval for difference of means: -0.478 to -0.219 The difference in the mean values of the two groups is greater than would be expected by chance; there is a statistically significant difference between the input groups (P = <0.001). Power of performed test with alpha = 0.050: 1.000

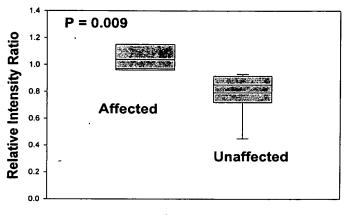
FIGURE 4

Comparison of Membrane Potentials in K⁺ Free Buffer and in Regular Buffer



Ethacrynate Induced Changes in Membrane Potential

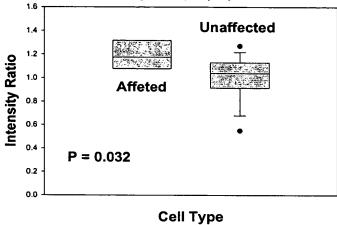
Cells were incubated for 30 min in presence or absence of ethacrynate in regular buffer or in K+ free buffer.



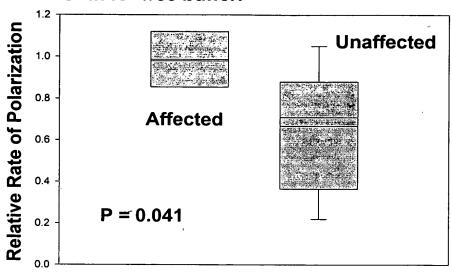
Cell Type

Relative Intensity Ratio = Intensity Ratio in K⁺ Free Buffer / Intensity Ratio in Regular Buffer

Effect of Ethancrynate on Membrane Potential Cells were incubated in K^+ Free Buffer with or without ethacrynate (30 μ M).



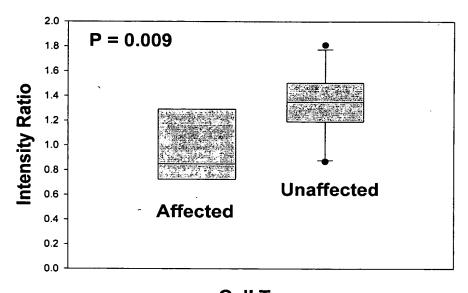
Relative Rate of Polarization Cells were incubated for 30 min with and without ethacrynate in regular buffer or in K+ free buffer.



Cell Type

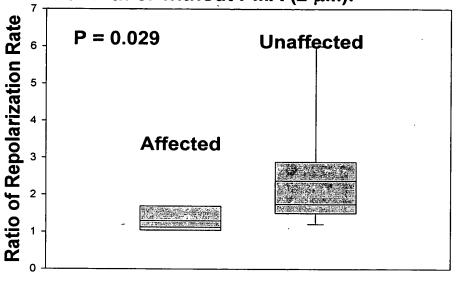
Relative Rate of polarization = Polarization Ratio in K⁺ Free Buffer / Polarization Ratio in Regular Buffer

Effect of Monensin on Membrane Potential Cells were incubated for 30 min in K^{+} Free Buffer with or without monensin (10 μ M).



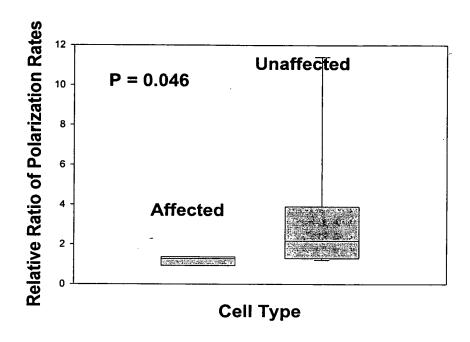
Cell Type

Effect of PMA on the rate of repolarization Cells were incubated for 30 min in K^{\dagger} Free Buffer with or without PMA (2 μ M).

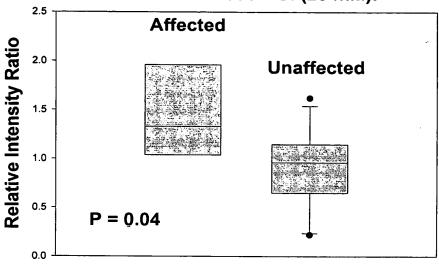


Cell Type

Effect of PMA on the Relative Rate of Repolarization Cells were incubated in regular or K^{\dagger} free buffers with or without PMA (2 μ M) for 30 min.

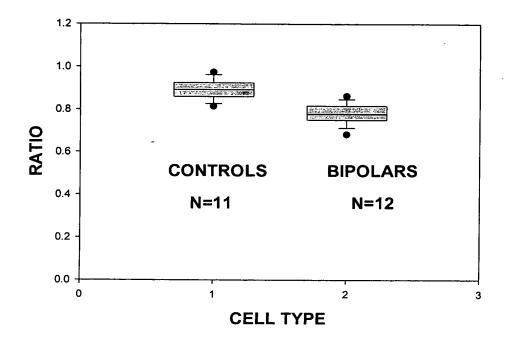


Effect of Lithium on Membrane Potential Cells were incubated in Regular or in K⁺Free Buffer for 2 hours with or without LiCl (20 mM).

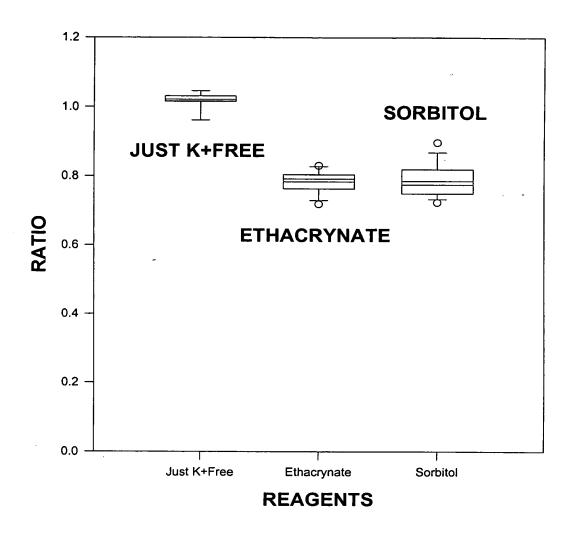


Cell Type

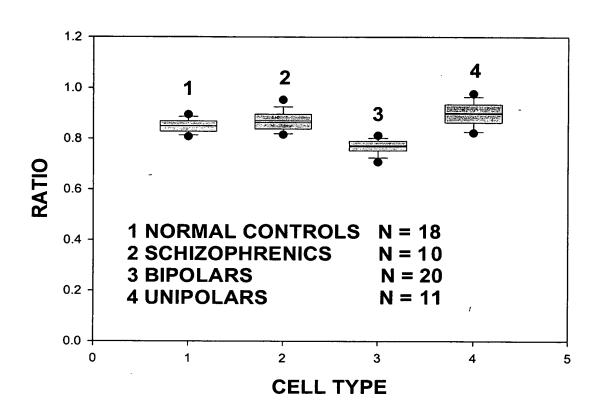
CLINICAL TRIALS (OPEN SAMPLES) P<0.001 WHOLE BLOOD



COMPARISON OF ETHACRYNATE AND SORBITOL IN K+FREE BUFFER



CLINICAL TRIALS BLIND WHOLE BLOOD SAMPLES P << 0.001



EXAMPLE OF ANOVA TO DIAGNOSE A BIPOLAR PATIENT PATIENT-A IS BIPOLAR

